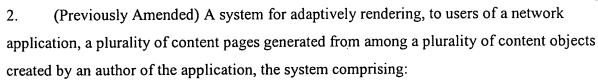## In the Claims

Please amend claim 5 and add new claims 12-25.

1.   1.   (Original) A system for adaptively rendering, to users of a network application, a
2. plurality of content pages generated from among a plurality of content objects created by an
3. author of the application, the system comprising:
4.   (a)   a database of information relating to the application and its users, and including at
5.   least one of the following types of information:
6.   (i)   user profile data;
7.   (ii)   user platform data;
8.   (iii)   observed user behavioral data;
9.   (iv)   aggregate or cumulative profile, platform, or behavioral data from
10.   multiple users; and
11.   (v)   application state data;
12.   (b)   one or more application rules for directing the system to select dynamically:
13.   (i)   one or more of the plurality of content objects, reference implicitly in the
14.   rules via an expression that relates to one or more goals of the author;
15.   (ii)   one or more users of the application that may receive the selected content
16.   objects; and
17.   (iii)   one or more application state conditions under which the selected content
18.   will be delivered to the selected users;
19.   and
20.   (c)   an engine for interpreting the application rules dynamically and generating and
21.   delivering content pages over the network to users of the application.

1.   2.   (Previously Amended) A system for adaptively rendering, to users of a network
2. application, a plurality of content pages generated from among a plurality of content objects
3. created by an author of the application, the system comprising:
4.   (a)   one or more databases for storing information relating to the application and its
5.   users, including:

6   (i)   individual, cumulative or aggregate user profile, platform and behavioral

7   data;

8   (ii)   content objects created by the author of the application at a plurality of

9   levels of abstraction, including a plurality of interconnected pages and a

10   plurality of intra-page content objects;

11   (iii)   application state data; and

12   (iv)   application rules directing the system to select one or more of the content

13   objects for delivery to one or more users of the application if one or more

14   conditions relating to the application state data are satisfied;

15   and

16   (b)   a dynamic content composition engine for interpreting the application rules

17   dynamically and generating and delivering content pages over the network to

18   users of the application, the engine including:

19   (i)   a first manager for interpreting the application rules to select page content

20   objects to be delivered to users of the application; and

21   (ii)   a second manager for interpreting the application rules to select intra-page

22   content objects, wherein the content pages delivered to users are generated

23   in part by including the selected intra-page content objects within the

24   selected page content objects.

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1   3.   (Original) A method for adaptively rendering, to users of a network application, a

2   plurality of content pages generated from among a plurality of content objects created by an

3   author of the application, the method comprising the following steps:

4   (a)   storing in a database information relating to the application and its users, and

5   including at least one of the following types of information:

6   (i)   user profile data;

7   (ii)   user platform data;

8   (iii)   observed user behavioral data;

9   (iv)   aggregate or cumulative profile, platform or behavioral data from multiple

10   users; and

11   (v)   application state data;

12	(b)	creating one or more application rules for directing the system to select
13		dynamically:

 14   (i)   one or more of the plurality of content objects, referenced implicitly in the

 15   rules via an expression that relates to one or more goals of the author;

 16   (ii)   one or more users of the application that may receive the selected content

 17   objects; and

 18   (iii)   one or more application state conditions under which the selected content

 19   will be delivered to the selected users;

 20   and

 21   (c)   interpreting the application rules dynamically and generating and delivering

 22   content pages over the network to users of the application.

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1   4.   (Previously Added) The system of claim 2 wherein the first manager for interpreting the

2   application rules to select page content objects to be delivered to users of the application

3   performs the following steps in selecting the page content objects to be delivered to a particular

4   user:

5   (a)   obtains profile, platform, or behavioral data specific to the user;

6   (b)   obtains global, aggregate data regarding profiles and behavior of other users;

7   (c)   determines a potential sequence of interconnected content pages to be delivered to

8   the user;

9   (d)   calculates variables based upon the data specific to the user in order to determine

10   the next content page or content pages and links to subsequent content pages to be

11   delivered to the user; and

12   (e)   recalculates the variables in order to determine the next content page or content

13   pages and links to subsequent content pages to be delivered to the user, whenever

14   the user requests another content page.

1   5.   (Currently Amended) The system of claim 2 wherein the intra-page content objects

2   selected by the second manager for interpreting the application rules comprise objects that may

3   be invoked from server-side or client-side applications and that dynamically render content pages

4   based on user profile, platform, and behavioral data, [or] and interactive responses of a user.

1   6.   (Previously Added) The system of claim 5 wherein the content objects adaptively render

2   HTML within the content pages.

1   7.   (Previously Added) The method of claim 3, wherein the next content page to be viewed

2   by a user is pre-fetched and delivered to the user's web browser while the user views the current

3   content page, with such pre-fetching based on the user's profile, platform, or behavioral data.

1   8.   (Previously Added) A system for adaptively rendering, to users of a network application,

2   a plurality of content pages generated from among a plurality of content objects, the system

3   comprising:

       (a)   a database of information relating to the application and its users, and including

              the following types of information:

6   (i)   user profile data;

7   (ii)   user platform data;

8   (iii)   observed user behavioral data;

9   (iv)   aggregate or cumulative profile, platform, and behavioral data from

10   multiple users; and

11   (v)   application state data;

12   (b)   a database of content objects, the content objects comprising:

13   (i)   one or more dynamic pages;

14   (ii)   one or more dynamic stacks within each page;

15   (iii)   one or more dynamic content elements within each stack; and

16   (iv)   one or more primitive objects within each content element;

17   (c)   one or more application rules for directing the system to select dynamically:

18   (i)   one or more of the plurality of content objects, referenced implicitly in the

19   rules via an expression that relates to one or more goals of the author;

20   (ii)   one or more users of the application that may receive the selected content

21   objects; and

22   (iii)   one or more application state conditions under which the selected content

23   will be delivered to the selected users;

24   and

25		(d)	an engine for interpreting the application rules dynamically and generating and
26			delivering content pages over the network to users of the application.

1   9.   (Previously Added) A system for adaptively rendering, to users of a network application,

2   a plurality of content pages generated dynamically from among a plurality of content objects

3   created by an author of the application, the system comprising:

4   (a)   a database of information relating to the application and its users, and including

5   the following types of information:

6   (i)   user profile data;

7   (ii)   user platform data;

8   (iii)   observed user behavioral data;

9   (iv)   aggregate or cumulative profile, platform, and behavioral data from

10   multiple users; and

11   (v)   application state data;

12   (b)   one or more application rules for directing the system to select dynamically:

13   (i)   one or more of the plurality of content objects, referenced implicitly in the

14   rules via an expression that relates to one or more goals of the author, the

15   plurality of content objects comprising:

16   (1)   one or more dynamic pages;

17   (2)   one or more dynamic stacks within each page;

18   (3)   one or more dynamic content elements within each stack; and

19   (4)   one or more primitive objects within each content element;

20   (ii)   one or more users of the application that may receive the selected content

21   objects; and

22   (iii)   one or more application state conditions under which the selected content

23   will be delivered to the selected users;

24   and

25   (c)   an engine for interpreting the application rules dynamically and generating and

26   delivering content pages over the network to users of the application.

1   10.   (Previously Added) A system for adaptively rendering, to users of a network application,

2   a plurality of content pages generated dynamically from among a plurality of content objects

3   created by an author of the application, the system comprising:

4   (a)   one or more databases for storing information relating to the application and its

5   users, the information including:

6   (i)   individual user profile data, cumulative or aggregate user profile data, user

7   platform data, and observed user behavioral data;

8   (ii)   content objects created by the author of the application at a plurality of

9   levels of abstraction, the plurality of content objects comprising:

10   (1)   one or more dynamic pages;

11   (2)   one or more dynamic stacks within each page;

12   (3)   one or more dynamic content elements within each stack; and

13   (4)   one or more primitive objects within each content element;

14   (iii)   application state data; and

15   (iv)   application rules directing the system to select one or more of the intra-

16   page content objects for delivery to one or more users of the application if

17   one or more conditions relating to the application state data are satisfied;

18   and

19   (b)   a dynamic content composition engine for interpreting the application rules

20   dynamically and generating and delivering content pages over the network to

21   users of the application, the engine including:

22   (i)   a first manager for interpreting the application rules to select the dynamic

23   page content objects to be delivered to users of the application; and

24   (ii)   a second manager for interpreting the application rules to select intra-page

25   content objects, wherein the content pages delivered to users are generated

26   in part by including the selected intra-page content objects within the

27   selected dynamic page content objects.

1   11.   (Previously Added) A system for adaptively rendering, to users of a network application,

2   a plurality of content pages generated dynamically from among a plurality of content objects

3   created by an author of the application, the system comprising:

4   (a)   a database of information relating to the application and its users, and including

5   the following types of information:

6   (i)   user profile data;

7   (ii)   user platform data;

8   (iii)   observed user behavioral data;

9   (iv)   aggregate or cumulative profile, platform, and behavioral data from

10   multiple users; and

11   (v)   application state data;

12   (b)   one or more application rules for directing the system to select dynamically:

13   (i)   one or more of the plurality of content objects, referenced implicitly in the

14   rules via an expression that relates to one or more goals of the author, the

15   plurality of content objects comprising objects that may be invoked from

16   server-side or client-side applications and that dynamically render content

17   pages based on profile, platform, and behavioral data, and application state

18   data of a user;

19   (ii)   one or more users of the application that may receive the selected content

20   objects; and

21   (iii)   one or more application state conditions under which the selected content

22   will be delivered to the selected users;

23   and

24   (c)   an engine for interpreting the application rules dynamically and generating and

25   delivering content pages over the network to users of the application.

1   12.   (New) A system for adaptively rendering, to users of a network application, a plurality of

2   content pages generated from among a plurality of content objects created by an author of the

3   application, the system comprising:

4   (a)   a database of information relating to the application and its users, and including

5   the following types of information:

6   (i)   user profile data;

7   (ii)   user platform data;

8   (iii)   observed user behavioral data;

9		(iv)	aggregate or cumulative profile, platform, or behavioral data from
10			multiple users; and
11		(v)	application state data;
12	(b)		one or more application rules for directing the system to select dynamically:
13		(i)	one or more of the plurality of content objects, referenced implicitly in the
14			rules via an expression that relates to one or more goals of the author;
15		(ii)	one or more users of the application that may receive the selected content
16			objects; and
17		(iii)	one or more application state conditions under which the selected content
18			will be delivered to the selected users;
19	and		
20	(c)		an engine for interpreting the application rules dynamically and generating and
21			delivering content pages over the network to users of the application, wherein
22			such interpretation of the application rules is based at least in part on the user
23			platform data.

1	13.		(New) A system for adaptively rendering, to users of a network application, a plurality of
2			content pages generated from among a plurality of content objects created by an author of the
3			application, the system comprising:
4	(a)		one or more databases for storing information relating to the application and its
5			users, including:
6		(i)	individual and aggregate user profile, platform and behavioral data;
7		(ii)	content objects created by the author of the application at a plurality of
8			levels of abstraction, including a plurality of interconnected pages and a
9			plurality of intra-page content objects;
10		(iii)	application state data; and
11		(iv)	application rules directing the system to select one or more of the content
12			objects for delivery to one or more users of the application if one or more
13			conditions relating to the application state data are satisfied;
14	and		

15   (b)   a dynamic content composition engine for interpreting the application rules

16   dynamically and generating and delivering content pages over the network to

17   users of the application, wherein such interpretation of the application rules is

18   based at least in part on the user platform data, the engine including:

19   (i)   a first manager for interpreting the application rules to select page content

20   objects to be delivered to users of the application; and

21   (ii)   a second manager for interpreting the application rules to select intra-page

22   content objects, wherein the content pages delivered to users are generated

23   in part by including the selected intra-page content objects within the

24   selected page content objects.

1   14.   (New) The system of claim 13 wherein the first manager for interpreting the application

2   rules to select page content objects to be delivered to users of the application performs the

3   following steps in selecting the page content objects to be delivered to a particular user:

4   (a)   obtains profile, platform, and behavioral data specific to the user;

5   (b)   obtains global, aggregate data regarding profiles and behavior of other users;

6   (c)   determines a potential sequence of interconnected content pages to be delivered to

7   the user;

8   (d)   calculates variables based upon the data specific to the user in order to determine

9   the next content page or content pages and links to subsequent content pages to be

10   delivered to the user; and

11   (e)   recalculates the variables in order to determine the next content page or content

12   pages and links to subsequent content pages to be delivered to the user, whenever

13   the user requests another content page.

1   15.   (New) A method for adaptively rendering, to users of a network application, a plurality of

2   content pages generated from among a plurality of content objects created by an author of the

3   application, the method comprising the following steps:

4   (a)   storing in a database information relating to the application and its users, and

5   including the following types of information:

6   (i)   user profile data;

7		(ii)	user platform data;
8		(iii)	observed user behavioral data;
9		(iv)	aggregate or cumulative profile, platform or behavioral data from multiple
10			users; and
11		(v)	application state data;
12	(b)		creating one or more application rules for directing the system to select
13			dynamically:
14		(i)	one or more of the plurality of content objects, referenced implicitly in the
15			rules via an expression that relates to one or more goals of the author;
16		(ii)	one or more users of the application that may receive the selected content
17			objects; and
18		(iii)	one or more application state conditions under which the selected content
19			will be delivered to the selected users;
20	and		
21	(c)		interpreting the application rules dynamically and generating and delivering
22			content pages over the network to users of the application, wherein such
23			interpretation of the application rules is based at least in part on the user platform
24			data.

1	16.	(New) A system for adaptively rendering, to users of a network application, a plurality of	
2	content pages generated from among a plurality of content objects, the system comprising:		
3		(b)	a database of information relating to the application and its users, and including
4			the following types of information:
5		(i)	user profile data;
6		(ii)	user platform data;
7		(iii)	observed user behavioral data;
8		(iv)	aggregate or cumulative profile, platform, and behavioral data from
9			multiple users; and
10		(v)	application state data;
11		(b)	a database of content objects, the content objects comprising:
12		(i)	one or more dynamic pages;

13   (ii)   one or more dynamic stacks within each page;

14   (iii)   one or more dynamic content elements within each stack; and

15   (iv)   one or more primitive objects within each content element;

16   (c)   one or more application rules for directing the system to select dynamically:

17   (i)   one or more of the plurality of content objects, referenced implicitly in the

18   rules via an expression that relates to one or more goals of the author;

19   (ii)   one or more users of the application that may receive the selected content

20   objects; and

21   (iii)   one or more application state conditions under which the selected content

22   will be delivered to the selected users;

23   and

24   (d)   an engine for interpreting the application rules dynamically and generating and

25   delivering content pages over the network to users of the application, wherein

26   such interpretation of the application rules is based at least in part on the user

27   platform data.

1   17.   (New) A system for adaptively rendering, to users of a network application, a plurality of

2   content pages generated dynamically from among a plurality of content objects created by an

3   author of the application, the system comprising:

4   (a)   a database of information relating to the application and its users, and including

5   the following types of information:

6   (i)   user profile data;

7   (ii)   user platform data;

8   (iii)   observed user behavioral data;

9   (iv)   aggregate or cumulative profile, platform, and behavioral data from

10   multiple users; and

11   (v)   application state data;

12   (b)   one or more application rules for directing the system to select dynamically:

13   (i)   one or more of the plurality of content objects, referenced implicitly in the

14   rules via an expression that relates to one or more goals of the author, the

15   plurality of content objects comprising:

16		(1)	one or more dynamic pages;
17		(2)	one or more dynamic stacks within each page;
18		(3)	one or more dynamic content elements within each stack; and
19		(4)	one or more primitive objects within each content element;
20	(ii)	one or more users of the application that may receive the selected content	
21		objects; and	
22	(iii)	one or more application state conditions under which the selected content	
23		will be delivered to the selected users;	

24   and

25   (c)   an engine for interpreting the application rules dynamically and generating and

26   delivering content pages over the network to users of the application, wherein

27   such interpretation of the application rules is based at least in part on the user

28   platform data.

1   18.   (New) A system for adaptively rendering, to users of a network application, a plurality of

2   content pages generated dynamically from among a plurality of content objects created by an

3   author of the application, the system comprising:

4   (a)   one or more databases for storing information relating to the application and its

5   users, the information including:

6   (i)   individual user profile data, aggregate user profile data, user platform data,

7   and observed user behavioral data;

8   (ii)   content objects created by the author of the application at a plurality of

9   levels of abstraction, the plurality of content objects comprising:

10   (1)   one or more dynamic pages;

11   (2)   one or more dynamic stacks within each page;

12   (3)   one or more dynamic content elements within each stack; and

13   (4)   one or more primitive objects within each content element;

14   (iv)   application state data; and

15   (v)   application rules directing the system to select one or more of the intra-

16   page content objects for delivery to one or more users of the application if

17   one or more conditions relating to the application state data are satisfied;

18   and

19   (b)   a dynamic content composition engine for interpreting the application rules

20   dynamically and generating and delivering content pages over the network to

21   users of the application, wherein such interpretation of the application rules is

22   based at least in part on the user platform data, the engine including:

23   (i)   a first manager for interpreting the application rules to select the dynamic

24   page content objects to be delivered to users of the application; and

25   (ii)   a second manager for interpreting the application rules to select intra-page

26   content objects, wherein the content pages delivered to users are generated

27   in part by including the selected intra-page content objects within the

28   selected dynamic page content objects.

1   19.   (New) A system for adaptively rendering, to users of a network application, a plurality of

2   content pages generated dynamically from among a plurality of content objects created by an

3   author of the application, the system comprising:

4   (b)   a database of information relating to the application and its users, and including

5   the following types of information:

6   (i)   user profile data;

7   (ii)   user platform data;

8   (iii)   observed user behavioral data;

9   (iv)   aggregate or cumulative profile, platform, and behavioral data from

10   multiple users; and

11   (v)   application state data;

12   (b)   one or more application rules for directing the system to select dynamically:

13   (i)   one or more of the plurality of content objects, referenced implicitly in the

14   rules via an expression that relates to one or more goals of the author, the

15   plurality of content objects comprising objects that may be invoked from

16   server-side or client-side applications and that dynamically render content

17   pages based on profile, platform, and behavioral data, and application state

18   data of a user;

19   (ii)   one or more users of the application that may receive the selected content

20   objects; and

21   (iii)   one or more application state conditions under which the selected content

22   will be delivered to the selected users;

23   and

24   (c)   an engine for interpreting the application rules dynamically and generating and

25   delivering content pages over the network to users of the application, wherein

26   such interpretation of the application rules is based at least in part on the user

27   platform data.

1   20.   (New) The system of claim 1 wherein the system is also directed to select dynamically a

2   plurality of templates for determining the size and location of the selected content objects that

3   will be delivered to the selected users.

1   21.   (New) The system of claim 12 wherein the system is also directed to select dynamically a

2   plurality of templates for determining the size and location of the selected content objects that

3   will be delivered to the selected users.

1   22.   (New) The system of claim 9 wherein the plurality of content objects also comprises one

2   or more templates within each page.

1   23.   (New) The system of claim 1 wherein the selection of content objects occurs at run-time.

1   24.   (New) The system of claim 12 wherein the selection of content objects occurs at run-

2   time.

1   25.   (New) The system of claim 9 wherein the application rule for directing the system to

2   select dynamically one or more of the plurality of content objects uses weights associated with

3   each primitive object to select the content objects.